

**Draft**

**CHP Data**

<b>Equipment</b>	<b>Application</b>	<b>Project Efficiency</b>	<b>Thermal Usage</b>	<b>Reference</b>	<b>Comment</b>
IR 70	Skilled nursing facility, NY	46%	estimated at 40%*	ETV report	Testing done August 14-21, 2002; heat for domestic hot water and space heating; facility would need to redesign to maximize available heat
IR 70	Laundry in Southern California		varies from 60 to 100 %; annual average 75%	vendor supplied data	Based upon thermal use in 2004; lowest demand in March to May; highest demand in December
Capstone 330	Apartment Building, Canada	72%	estimated at 95%*	ETV report	Testing done April and May, 2001; heat used for apartment's domestic hot water and space heating needs
Capstone 330	Colorado Pork	54%	estimated at 60%*	ETV report	Test done February 14,15, 2004; waste gas application using waste generated by 5,000 pigs; waste stream used by both a microturbine and an engine; thermal energy used to keep digestion at constant temperature; results reported for full load
Capstone c60	Waldbaums Supermarket, Hauppauge NY	33%	estimated at 15%*	ETV report	Test done June 4-20, 2003; CHP system integrated into market's existing air conditioning and dehumidification unit; microturbine equipped with compressor; mild weather resulted in low space heating and dehumidification demand during tests-- heating demand highly variable

\*Based on overall system efficiency of 75%

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**Other CHP Information**

<b>Equipment</b>	<b>Application</b>	<b>Project Efficiency</b>	<b>Thermal Usage</b>	<b>Reference</b>	<b>Comment</b>
PC 25	Space heating at hospital located at Edwards AFB			IQPC F-Cells 2000 (London)	Presentation by user--military base; reported that 50% of available thermal energy is used
PC 25	preheat boiler makeup water at Picatinny Arsenal			IQPC F-Cells 2000 (London)	Presentation by user--military base; reported that all available thermal energy is used
PC 25	heating pool at Fort Eustis, VA			IQPC F-Cells 2000 (London)	Presentation by user--military base; reported that 18% of available thermal energy is used
PUC self gen report	microturbine	Median plan efficiency is 46% and PURPA efficiency is 36%	Only two projects out of 15 satisfied PURPA standard of 42.5 percent (one was a fuel cell plant)-for a MT, satisfying PURPA standard of 42.5% would require using about 45% of available thermal energy.	Self-Generation report for 2004	Estimates based upon 31 projects; projects use both microturbines and engines; with only two of 15 projects satisfying PURPA requirement, it suggests that many projects use less than 50% of available thermal energy

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